

PATENT CLAIMS

1. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material, comprising an end connector (1) with radially projected flange at bottom (5) for welding on a composite pack or welding in a composite pack or an end connector (1) with formed threaded cap (21) at bottom for screwing on a collar thread, **characterized in that** on the end connector (1) a mouth or pouring piece (2) is provided along with a pierce-cutter (13) formed on the inner side of the end connector, thereby forming a nipple, fitted inside the end connector (1), said cutter forming at least one pierce point (17) with its bottom edge forming at least one swung cutting edge (18), rising at an angle to the nipple rotation axis and that the mouth or pouring piece (2) forms on the outer side of the end connector a sleeve (7), surrounding the end connector (1) that can be moved on the end connector (1).
2. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to Claim 1, **characterized in that** guiding devices are provided between the outer side of end connector (1) and inner side of the sleeve (7), engaging with each other so that when the mouth- or pouring piece (2) is pressed down and / or rotated on the end connector (1) a helical turning of the mouth or pouring piece (2) is caused in relation to the end connector (1).
3. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to Claim 1, **characterized in that** a turning and cover cap (3) in the pouring piece (2) is connected through an integral hinge(27), said cap having a toothing (28) on its inner side, adapted to engage with a similar toothing rim (26), provided around the periphery of the pouring piece (2), when the turning- and cover cap (3) is put on the pouring piece (2) and a guarantee strip (8), which can be torn off, is formed over fine material bridges (10), below the toothing rim (26).
4. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to Claim 3, **characterized in that** the pouring piece (2) has a dome shaped head, provided with diametric incisions (24), which join at the center of a pouring- opening (29).

5. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to any of the previous Claims, **characterized in that** the guiding devices on the outer side of the end connector comprise at least one steep, helical groove (19), which is carried on the outer side of the end connector and, on the accompanying mouth or pouring piece with at least two cams (20) at the inner side of the sleeve (7), which is formed by the pouring piece (2), said cams fitting into said groove.
6. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to any of the previous Claims; **characterized in that**, a projection (15), projecting inward is provided at the upper end of the end connector, the pierce-cutter (13) having, in its lower region on the outer side, a continuously running step (16), projecting outward and adapted to engage with the projection (15) at the end of the end connector from the back when the mouth-or pouring piece (2) being put on, thereby sealing the mouth or pouring piece drip proof on the end connector (1) and making it secure.
7. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to any of the previous Claims, **characterized in that** the mouth-or pouring piece (2) on the end connector is movable in an axial direction at least over the height of the pierce-cutter(13), where locking device, working between the pierce-cutter and the end connector, is provided in such a way that it locks the pierce-cutter (13) in the pressed down position.
8. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to any of the previous Claims, **characterized in that** the mouth- or pouring piece (2) has an outer rim (6), which is round in cross section projecting radially beyond the sleeve, which it forms, and that when the mouth- or pouring piece is pulled up completely, the outwardly projecting step (16) on the pierce-cutter (13) finds a stop at the inwardly projecting projection (15) on the end connector (1) and the point (17) of the pierce-cutter (13) is positioned above the bottom end of the end connector.
9. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to any of the previous Claims, **characterized in that** at the bottom edge of the sleeve (7), which is formed by the joining piece

(2), a strip (8) is formed through several material bridges (10), placed as breaking points and therefore can be torn off, lengthening and running around the sleeve (7), said strip forming at one end a tongue (11), projecting outwards, and the strip (8) blocks pressing down of the mouth- or pouring piece (2) on the end connector (1) in such a way that it finds a stopper on the projected rim (5) of the end connector (1) and thus is intended to act as a guarantee device against first opening.

10. Drink and pour closure with facility for pierce cutting (13) for composite packs or necks of container or bottles, which are closed with foil material according to any of the Claims 1-2 or 5-8, characterized in that at the mouth- or pouring piece (2), below its projected, rounded rim (6), a cap (3) as sealing and dust cap is formed through an elastically flexible strip (4), said cap is capable of being placed on the mouth or pouring piece (2), wherein at the bottom side of the cap, a collar (12) with sealing lip is formed, which fits in the pierce-cutter (13).